

FIG. 1

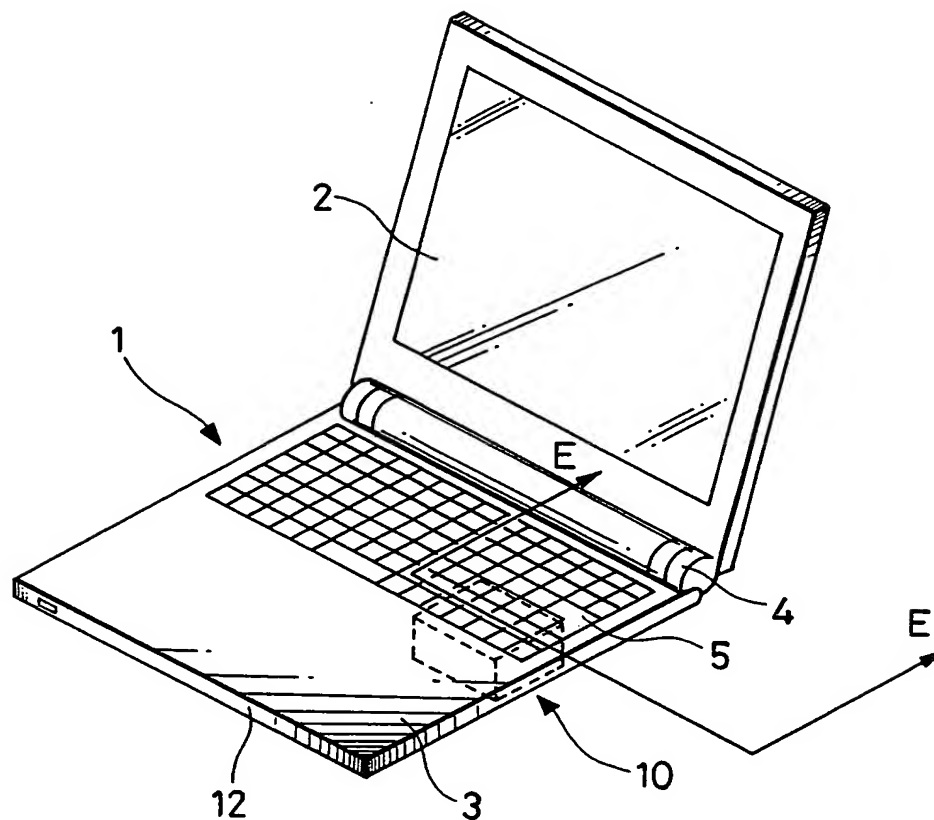


FIG. 2

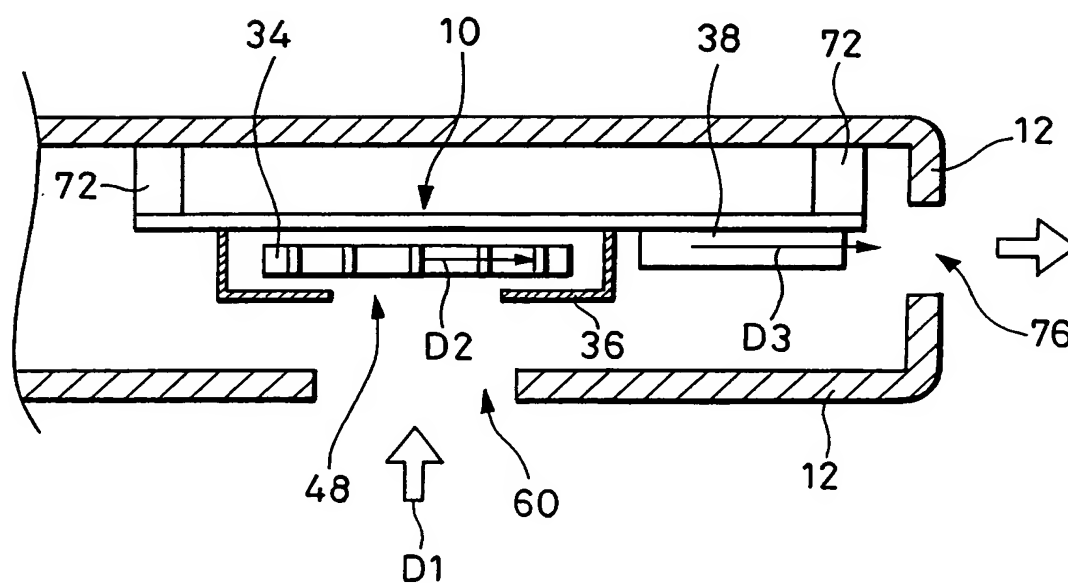


FIG. 3

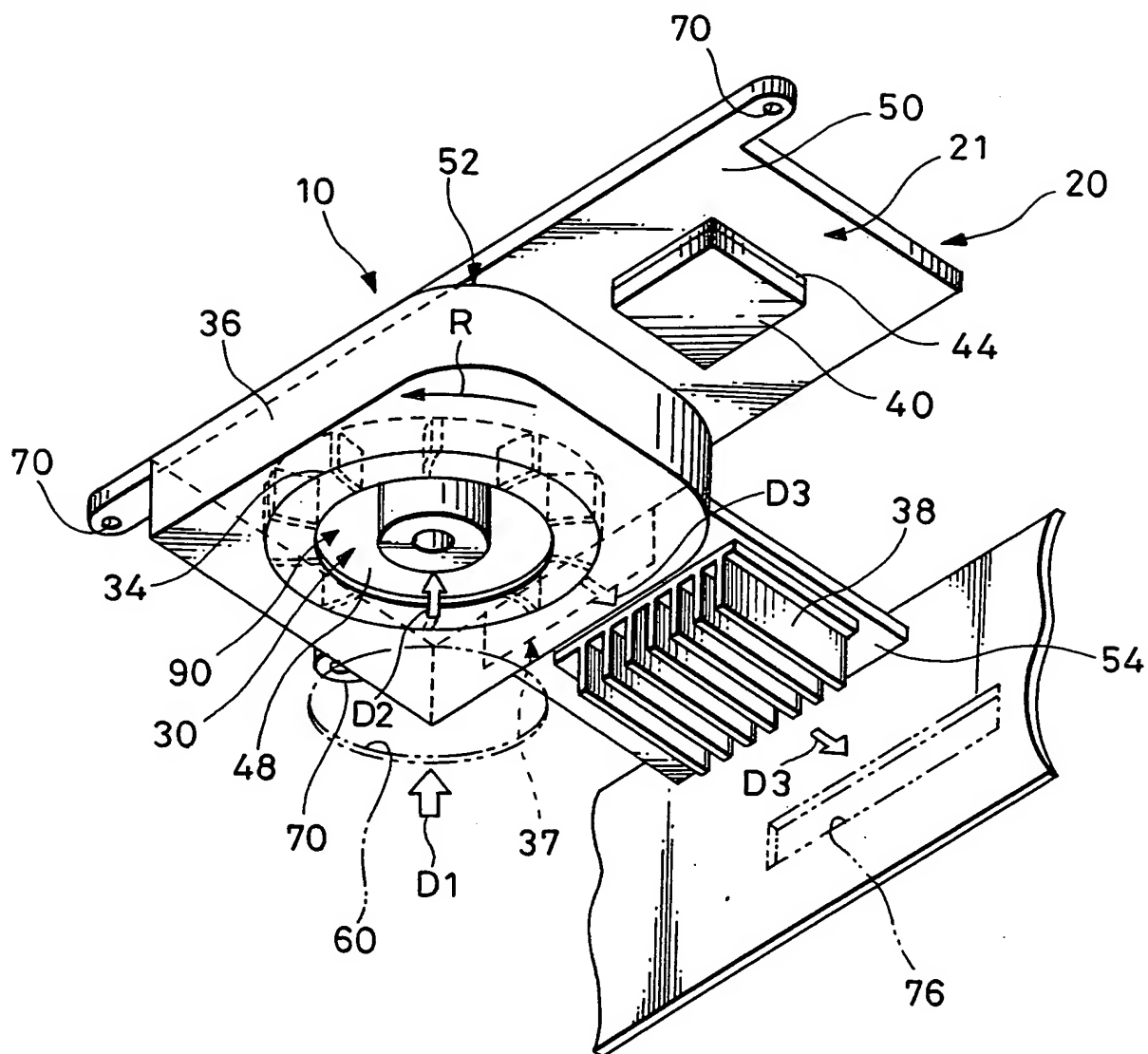


FIG. 4

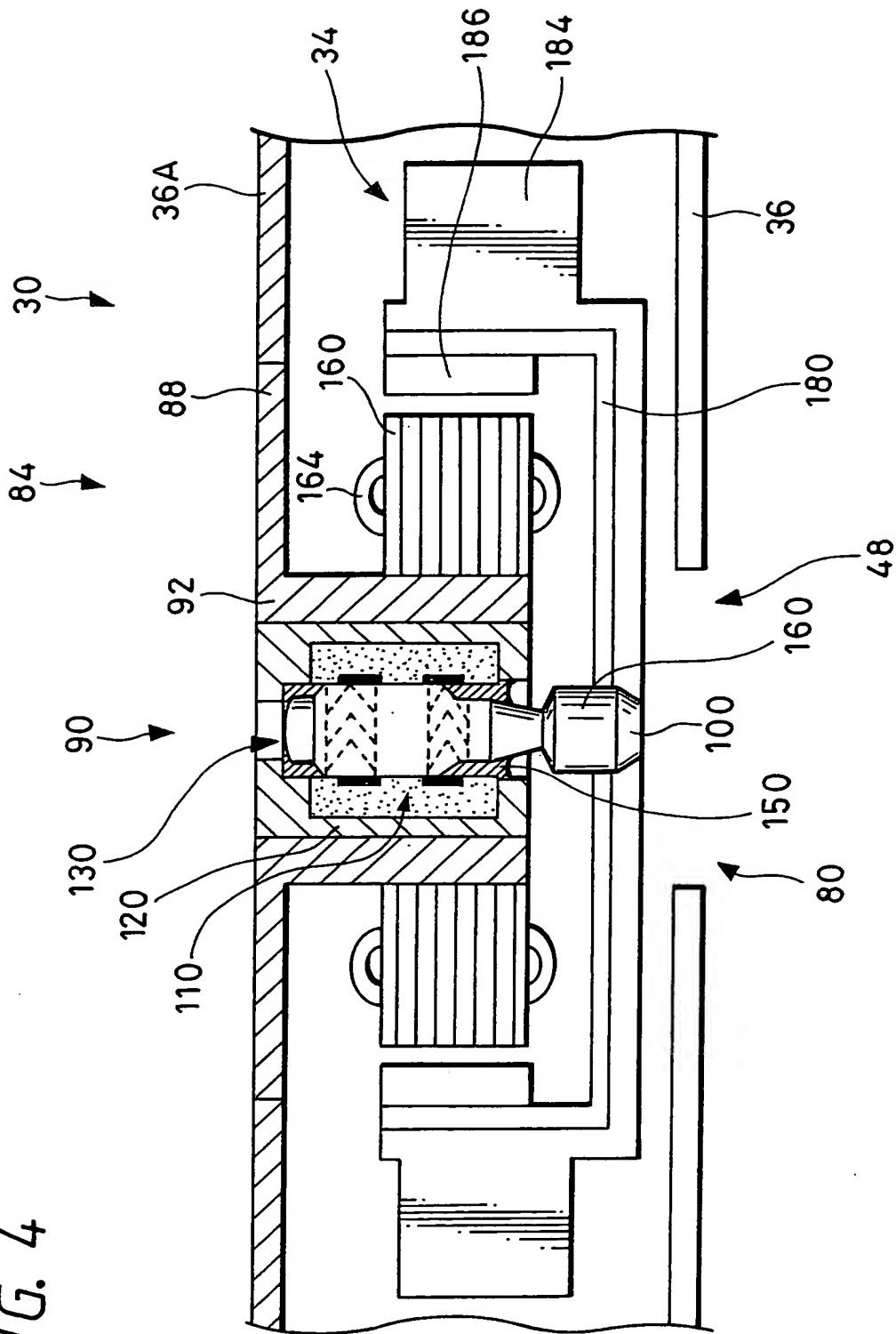




FIG. 6A

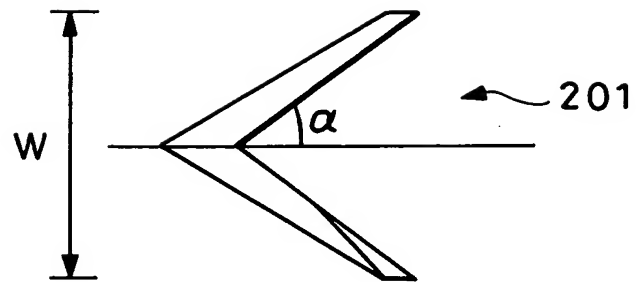
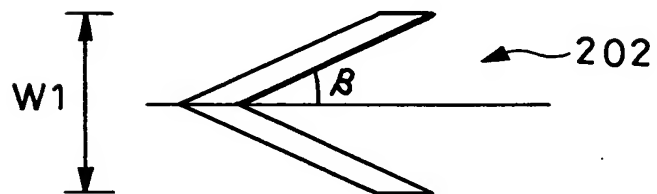


FIG. 6B



Inflow Angle of Herringbone  
 $\alpha > \beta$

FIG. 7

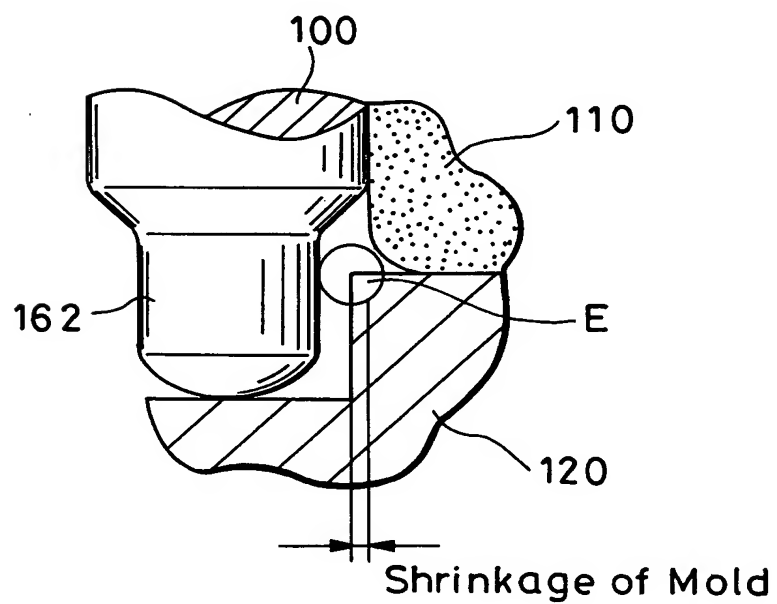


FIG. 8

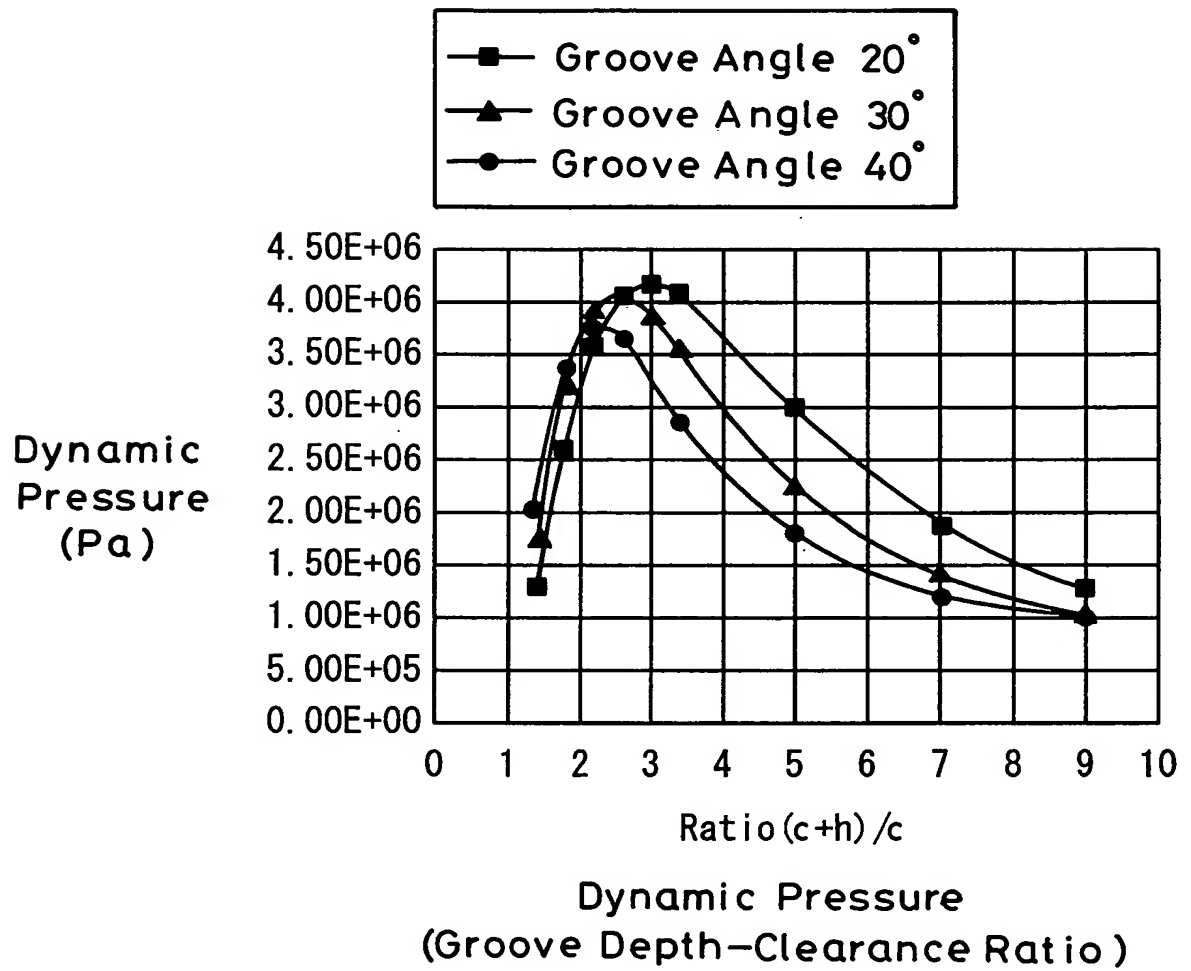


FIG. 9A

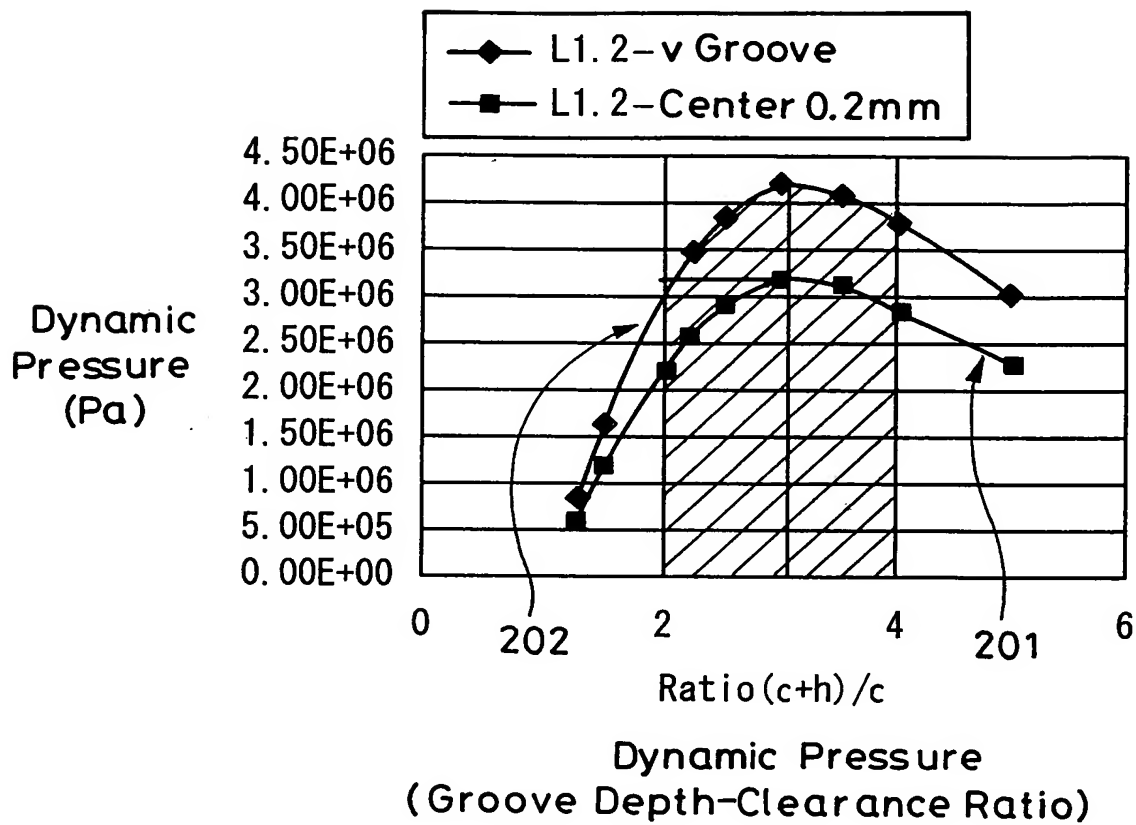
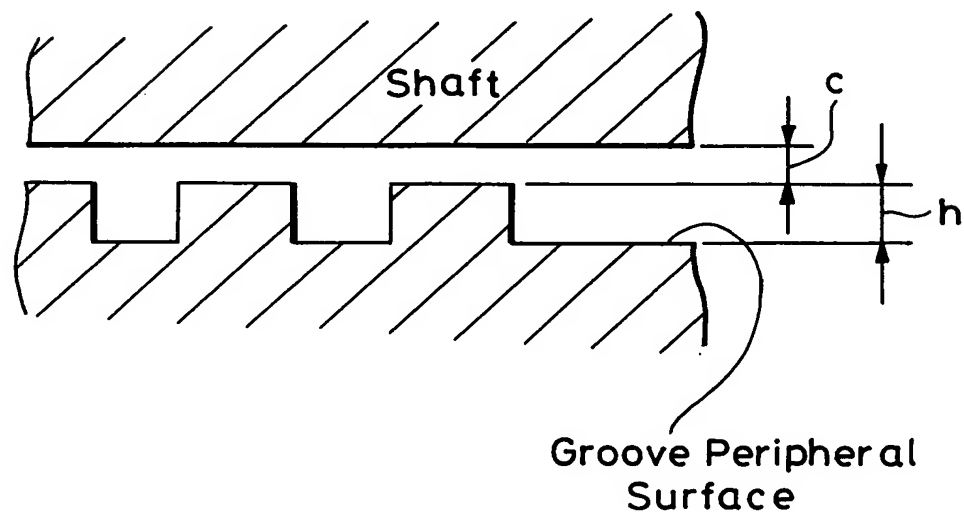
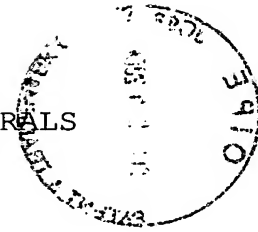


FIG. 9B





## DESCRIPTION OF REFERENCE NUMERALS

90... BEARING UNIT

100... SHAFT

110... RADIAL BEARING

120... RETENTION MEMBER

130... THRUST BEARING

150... LUBRICANT

160... EXPOSED END

162... INNER END

170... STEPPED MIDDLE PORTION

201... FIRST DYNAMIC PRESSURE GENERATING  
GROOVE

202... SECOND DYNAMIC PRESSURE GENERATING  
GROOVE

S... GAP